		A 154/ - )	
	Application No.	Applicant(s)	
	09/771,809	AMATUCCI, GLENN G.	
Notice of Allowability	Examiner	Art Unit	
	Julian Mercado	1745	
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL- NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED i 85) or other appropriate comm RIGHTS. This application is	n this application. If not inclu iunication will be mailed in du	ded e course. <b>THIS</b>
1. This communication is responsive to <u>4-28-04</u> .			
2. The allowed claim(s) is/are <u>8-11</u> .			
3. $\boxtimes$ The drawings filed on <u>29 January 2001</u> are accepted by	the Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents h</li> </ul>		or (f).	
<ol> <li>☐ Certified copies of the priority documents in</li> <li>☐ Certified copies of the priority documents h</li> </ol>		on No	
Copies of the certified copies of the priority			cation from the
·	documents have been receive	ed III tillo flational stage applic	
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			4.5
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	E" of this communication to fil NMENT of this application.	e a reply complying with the r	requirements
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which	bmitted. Note the attached EX gives reason(s) why the oath o	AMINER'S AMENDMENT or or declaration is deficient.	NOTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") r	nust be submitted.		
(a) ☐ including changes required by the Notice of Draftsp		w ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	<u></u> ,		
(b) ☐ including changes required by the attached Examir Paper No./Mail Date	ner's Amendment / Comment o	or in the Office action of	
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	R 1.84(c)) should be written on in the header according to 37 C	the drawings in the front (not t FR 1.121(d).	he back) of
7. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT	eposit of BIOLOGICAL MAT	ERIAL must be submitted	. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (P	TO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94	B8) 6. ☐ Interview 9	Summary (PTO-413), ./Mail Date	,
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/S		s Amendment/Comment	

U.S. Patent and	d Trademark	Offic
PTOL-37 (F	Rev. 1-04)	

of Biological Material

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
 4. ☐ Examiner's Comment Regarding Requirement for Deposit

8. 

Examiner's Statement of Reasons for Allowance

9. Other \_\_\_\_.

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## **DETAILED ACTION**

## Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Alexander Pagano on August 17, 2004.

The application has been amended as follows:

- a. Claims 1-7 have been canceled.
- b. In claim 8 at line 2, "and" has been changed to --an--.

### Remarks

This Office action is responsive to applicant's amendment filed April 28, 2004.

# Claim Rejections - 35 USC § 103

The rejection of claims 8-10 under 35 U.S.C. 103(a) based on Atsumi et al. (U.S. Pat. 6,120,938) and Peramunage et al. ("Preparation of Micron-Sized Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> and its Electrochemistry in Polyacrylonitrile Electrolyte-Based Lithium Cells", *J. Electrochem. Soc.*, 1998, Vol. 145, No. 8, pp. 2609-2615) has been withdrawn.

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As a matter of record, the examiner acquiesces with applicant's assertion that the nanostructure lithium intercalation compound disclosed by Atsumi et al. having a particle size of 0.05  $\mu$ m to 50  $\mu$ m is drawn to *hydrogen* lithium titanate and not lithium titanate *per se*, such as of the formula Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>. Upon further review, the largest particle size of lithium titanate in Atsumi et al. is in the range of 0.2 – 0.4  $\mu$ m. (Comparative example of Table 2)

## Allowable Subject Matter

Claims 8-11 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or render obvious the instant invention regarding a lithium titanate intercalation compound comprising lithium titanate particles of less than 100 nm. Applicant's disclosure in Figures 4 and 5 is noted to show an increased cycle rate capacity and capacity retention, respectively, for the claimed lithium titanate intercalation compound when used as the active material component in battery cell electrodes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Patri<sup>N</sup>ic Ryan Supervisory Patcht Examiner Technology Center 1700

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